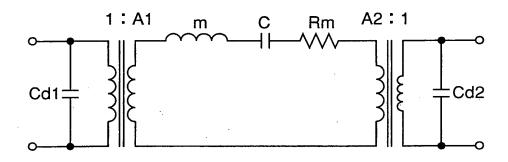
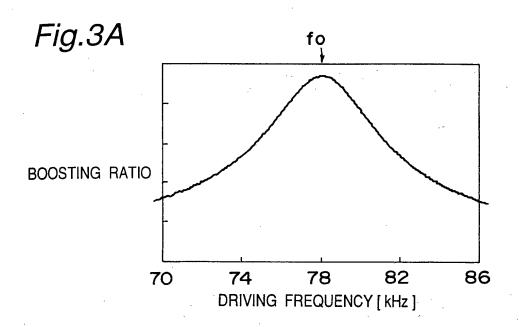
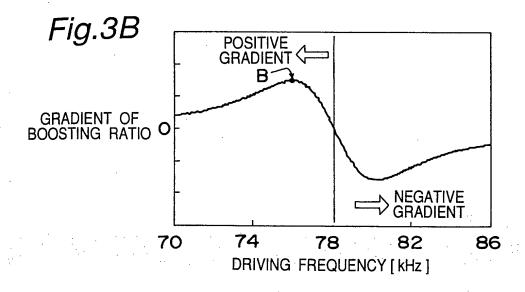
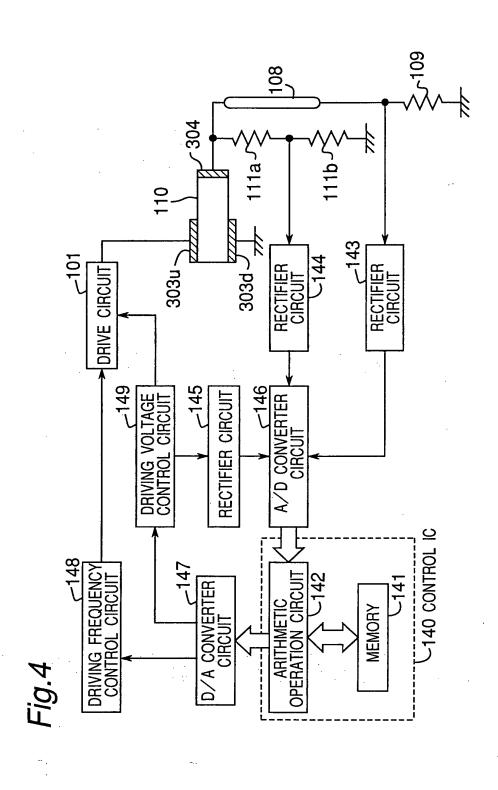


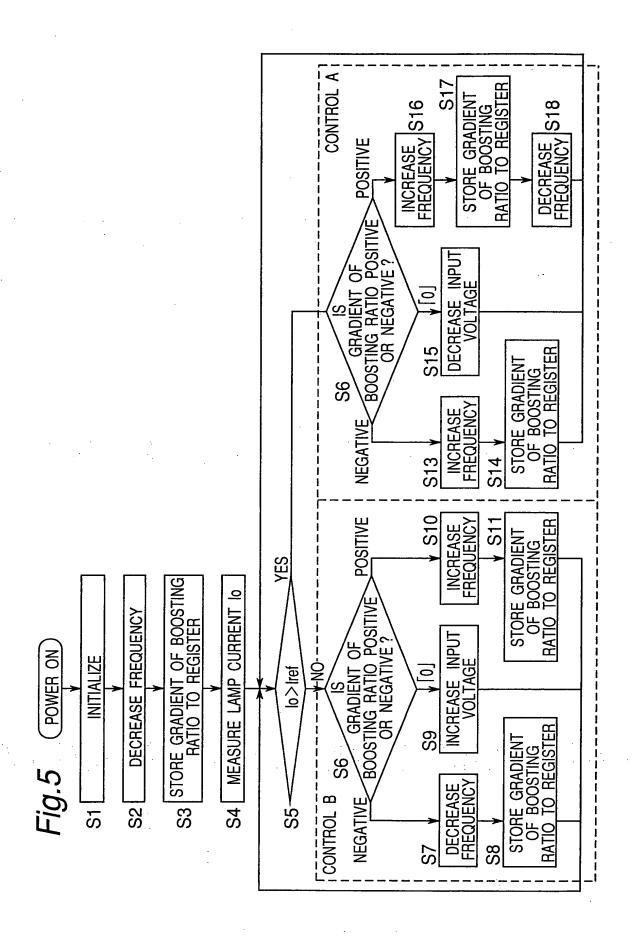
Fig.2

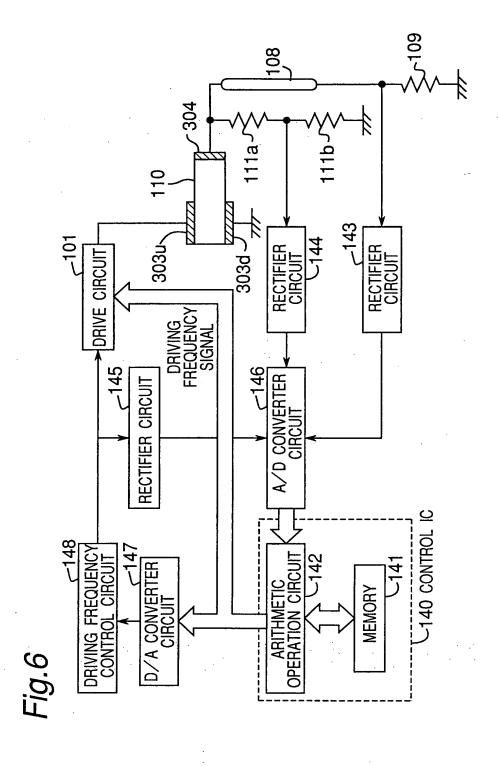


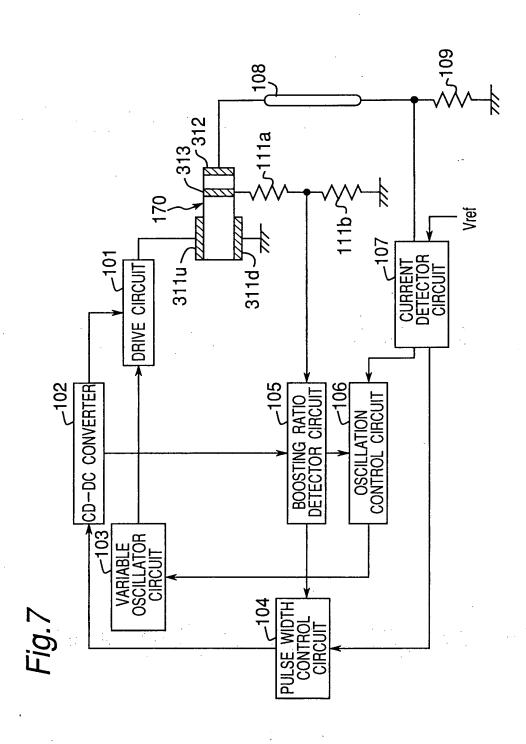


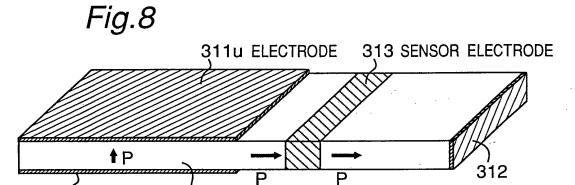












311d ELECTRODE 319 PIEZPELECTRIC MATERIAL

P: DIRECITION OF POLARIZATION

Fig.9

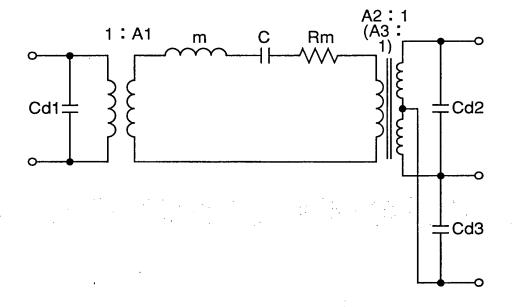
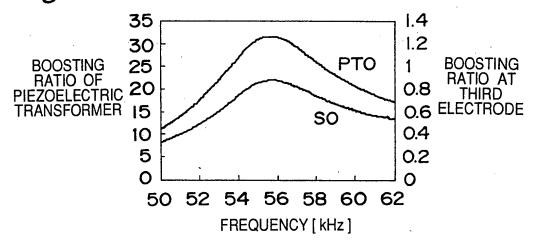
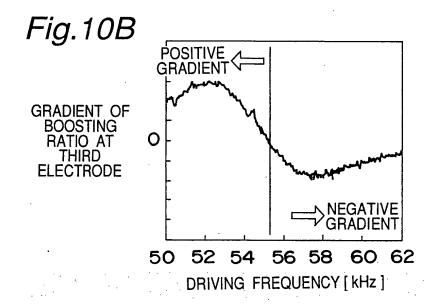


Fig.10A





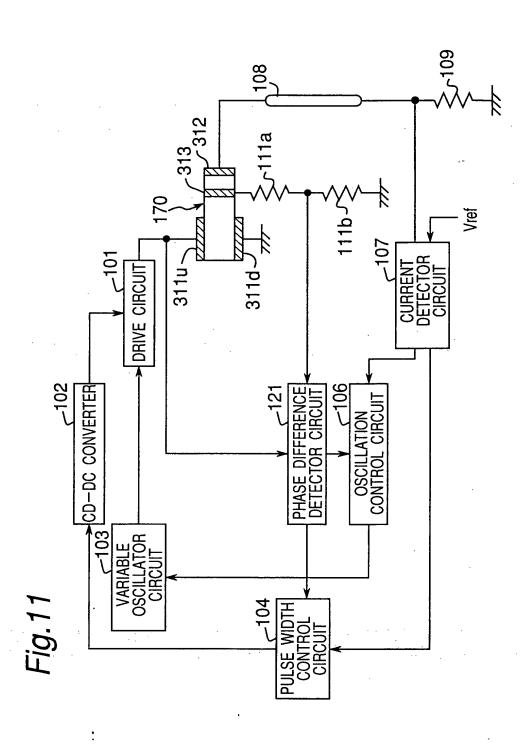


Fig.12A

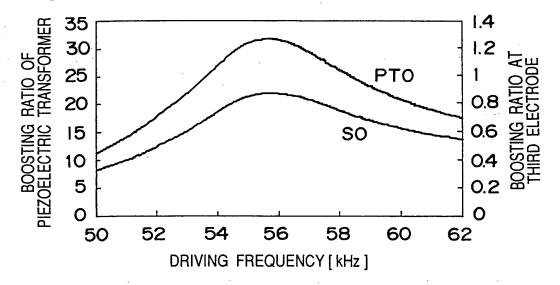
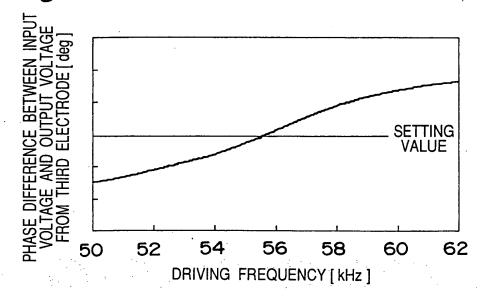
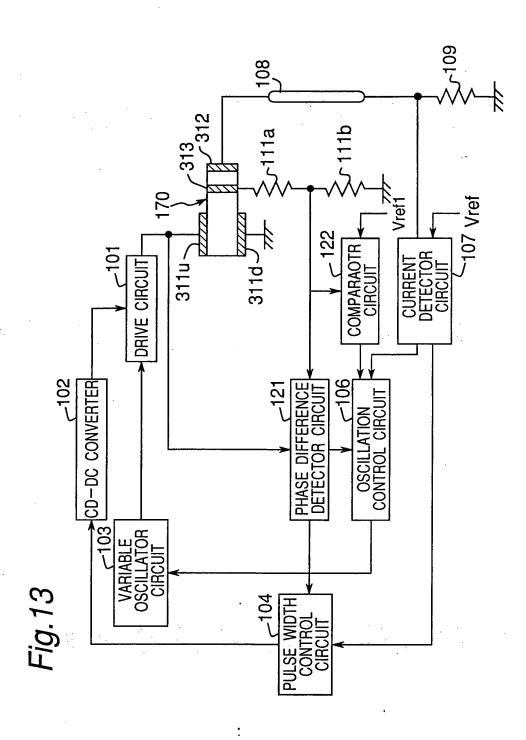
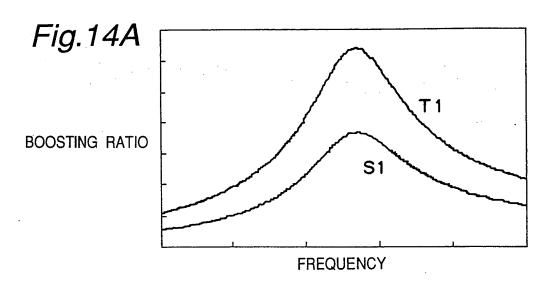
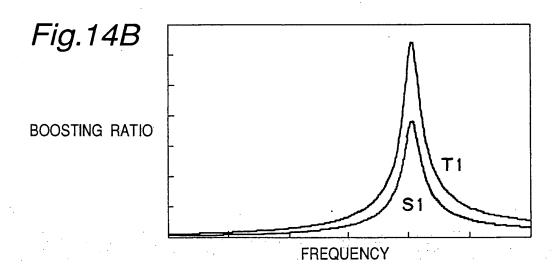


Fig.12B









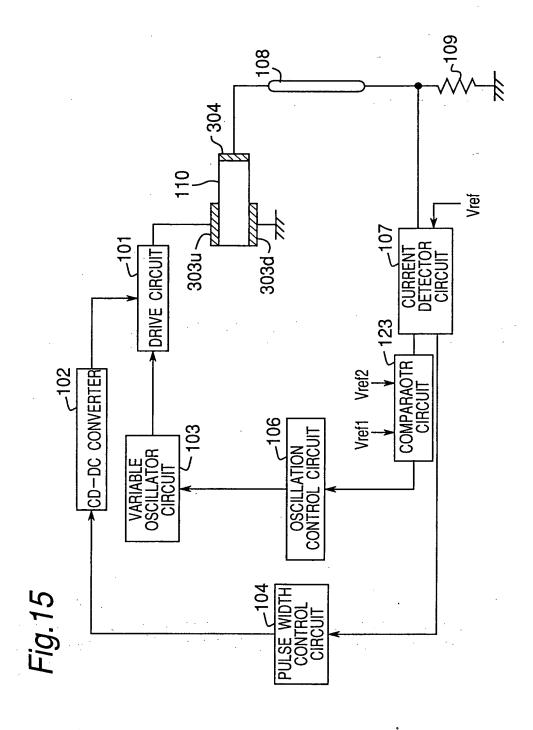


Fig.16 PRIOR ART

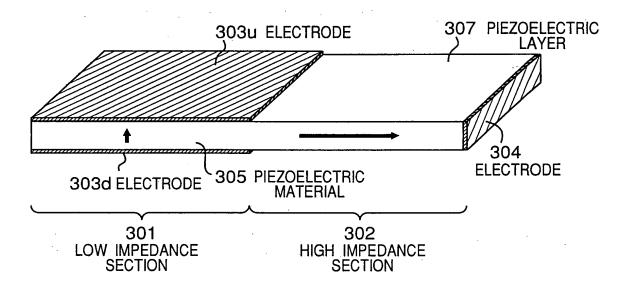


Fig.17 PRIOR ART

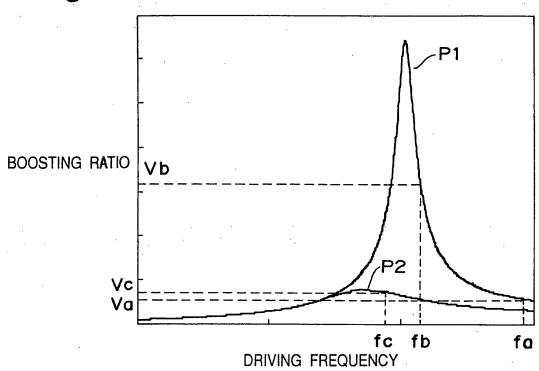
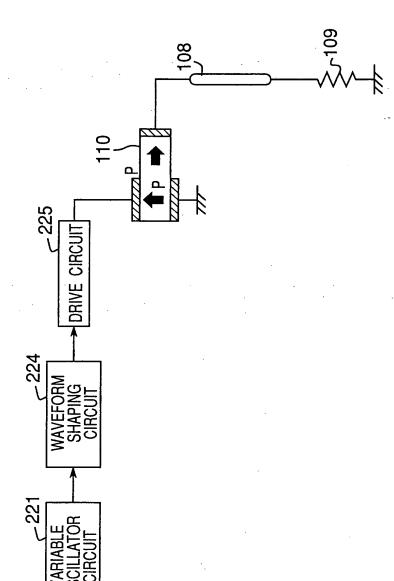


Fig. 18 PRIOR ART



DRIVE CIRCUIT Fig.19 PRIOR ART OSCILLATION CONTROLLER CIRCUIT

Fig.20 PRIOR ART

